

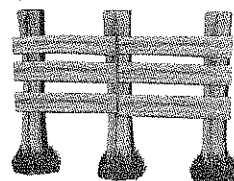
Name \_\_\_\_\_

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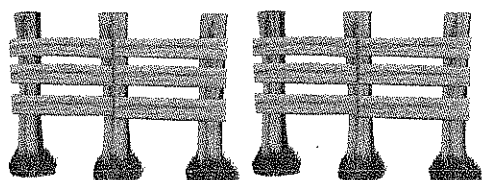


1. Max builds rail fences. For one style of fence, each section uses 3 vertical fence posts and 6 horizontal rails. How many posts and rails does he need for a fence that will be 9 sections long?

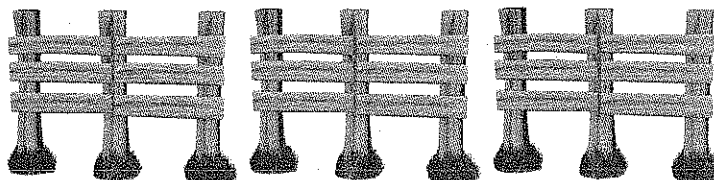
1 Section



2 Sections



3 Sections



First, think about what the problem is asking and what you know. As each section of fence is added, how does the number of posts and the number of rails change?

Next, make a table and look for a pattern. Use what you know about 1, 2, and 3 sections. Write a rule for the number of posts and rails needed for 9 sections of fence.

| Number of Sections | 1 | 2  | 3  | 9 |
|--------------------|---|----|----|---|
| Number of Posts    | 3 | 6  | 9  |   |
| Number of Rails    | 6 | 12 | 18 |   |

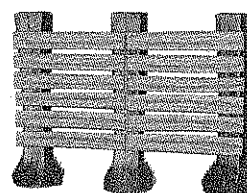
Possible rule for posts: \_\_\_\_\_

Possible rule for rails: \_\_\_\_\_

Finally, use the rule to solve the problem.

2. **H.O.T.** What if another style of rail fencing has 6 rails between each pair of posts? How many rails are needed for 9 sections of this fence?

Possible rule: \_\_\_\_\_



| Number of Sections | 1  | 2  | 3  | 9 |
|--------------------|----|----|----|---|
| Number of Posts    | 3  | 6  | 9  |   |
| Number of Rails    | 12 | 24 | 36 |   |

3. Leslie is buying a coat on layaway for \$135. She will pay \$15 each week until the coat is paid for. How much will she have left to pay after 8 weeks?

| Number of Weeks  | 1  | 2  | 3  | 8 |
|------------------|----|----|----|---|
| Amount paid (\$) | 15 | 30 | 45 |   |